

Rec'd PCT/PTO 17 JUN 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

10/539704

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
8 July 2004 (08.07.2004)

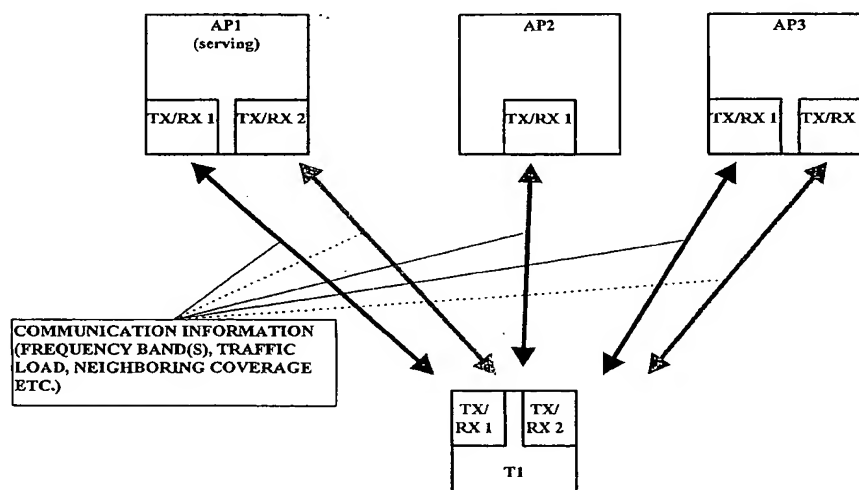
PCT

(10) International Publication Number  
WO 2004/057899 A1

- (51) International Patent Classification<sup>7</sup>: H04Q 7/38, H04L 12/28
- (21) International Application Number: PCT/IB2002/005531
- (22) International Filing Date: 19 December 2002 (19.12.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): NOKIA CORPORATION [FI/FI]; Keilalahdentie, FIN-02150 Espoo (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): VÄISÄNEN, Ari [FI/FI]; Nokia Corporation, Keilalahdentie 4, FIN-02150 Espoo (FI). SINIVAARA, Hasse [FI/FI]; Nokia Corporation, Keilalahdentie 4, FIN-02150 Espoo (FI).
- (74) Agents: LESON, Thomas, Johannes, Alois et al.; TBK-Patent, Bavariaring 4-6, 80336 München (DE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report

[Continued on next page]

(54) Title: SYSTEM AND HANDOVER MECHANISM IN FREQUENCY MULTIPLE BAND ENVIRONMENT AND EQUIPMENT THEREFOR



(57) Abstract: A mechanism for supporting the decision on performing a communication connection changeover of a subscriber terminal in a wireless communication network, in particular in a multiple band WLAN, is proposed. The subscriber terminal is able to communicate with an access node on two or more frequency bands. AP related communication information are detected which comprises, besides information indicating a multiple band capability, a traffic load, a frequency band coverage and/or a frequency channel information. The communication information are broadcasted, for example, by means of the AP beacon frame, processed and used for a decision on a communication connection changeover of the subscriber terminal.

WO 2004/057899 A1